



Part Number: 82760

Single-Pair, (1 pr) 18 AWG (19x30) TC, FEP/LS PVC, Foil
Shld, CMP

Product Description

One 18 AWG pair stranded (19x30) tinned copper conductors, twisted pair, FEP insulation, overall Beldfoil® shield (100% coverage), Flamarrest® jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
18	19x30	TC - Tinned Copper	1
Total Number of Conductors:			2

Insulation:

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.007 in

Color Chart 1:

Number	Color
1	Black & Red

Stranding:

Lay Length	Lay Direction	Twists
2 in	Left Hand	6 twist/ft

Outershield 1:

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil® with shorting fold	100 %	TC - Tinned Copper	20	Stranded mm

Outerjacket 1:

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.146 in	0.014 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
5.5 Ohm/1000ft	7.3 Ohm/1000ft

Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
51 pF/ft	97 pF/ft

Impedance:

Nominal Characteristic Impedance
35 Ohm

Delay:

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.47 ns/ft	69 %

Current:

Element	Max. Recommended Current [A]
10C Temperature Rise	5.4 Amps per conductor @ 25°C ambient

Inductance:

Nominal Inductance
0.15 µH/ft

Voltage:

UL Voltage Rating
300 V RMS

Use

Suitability - Indoor:	Yes
Max Recommended Pulling Tension:	64 lbs

Safety

CSA Flammability:	FT6
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UL Flammability:	NFPA 262
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Temperature Range

Operating Temp Range:	-20°C To +75°C
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Mechanical Characteristics

Min Bend Radius/Minor Axis:	1.5 in
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Part Number

Plenum (Y/N):	Yes
Non-Plenum Number:	8760

Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC Articles:	NEC Articles
NEC/(UL) Specification:	NEC/(UL) Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Product Variants

Part Number	Color	Put-Up Type	Length
82760 8771000	NATURAL	Reel	1000 ft
82760 8775000	NATURAL	Reel	5000 ft
82760 877U1000	NATURAL	UnReel	1000 ft
82760 877U500	NATURAL	UnReel	500 ft

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